# Limited senior pass-fail grading given faculty approval for spring

Faculty approval of a limited cide whether or not to take an experiment with pass-fail grading elective on the pass-fail system. was given in the vote taken at the The objective of this experiwait as long as mid-term to de- receiving a low grade is removed. automobile accident early on the

faculty meeting December 21. Be- ment, which will be continued Monday and Wednesday for while traveling to a national conginning in the upcoming term, through at least three terms, is to James N. Murphy, Assistant Suseniors in good standing will be determine whether seniors will be perintendent of Building Services, allowed to choose one elective encouraged to take courses in three MIT students, and one stusubject per term to be graded areas outside their fields of great- dent from the University of Mason a pass-fail basis. Seniors may est ability if the possibility of sachusetts. They were killed in an Wright '67, Senior House, from

Five die in crash

# Memorial services planned

By Mark Bolotin

morning of Tuesday, December Memorial services will be held 27, near Baldwin, Wisconsin, vention of Alpha Phi Omega service fraternity to be held in Minneapolis.

> The students were David L. Baldwinsville, New York; John P. Augustine '69, Burton House, from Phoenix, Arizona; John F. Keil '69, Baker House, from Hasbrouck Heights, New Jersey; and David B. Arlen, senior at the University of Massachusetts, from Longmeadow, Massachusetts.

Although private funerals have been completed for all five, memorial services will be held for them. A memorial service for Mr. Murphy will be held Monday afternoon at 4:30 pm in Kresge Auditorium. All of his friends in the community are welcome to at-

James N. Murphy, Assistant Superintendent of Building Services at MIT, in his office before fatal auto accident.

All friends of the students are invited to attend.

APO advisor

Mr. Murphy was the faculty advisor of the APO chapter at MIT. He was born in Cambridge, June 15, 1914, and had attended the

(Please turn to Page 2)



A memorial service for all four students will be held Wednesday afternoon at 4 pm in the Chapel.

#### Starting next term

# Pre-med students assisted in getting recommendations

A new premedical advisory than two or three students in a who plan to attend medical many also come from the Human-

Policy for the program, which Advisory Committee.

#### Department has grown

search might lead is not in con- cases that involve modification of At present there are about fifty- for general counseling and dis-A formal policy concerning clas. flict with the principle of freedom the existing policy and will in- four undergraduates who plan to cussion of possible careers in sified theses and research at the of inquiry and open exchange of form the Committee of all ap- attend medical school; About half medicine and medical research. of these are seniors who hope to And third, it will provide supple-"Individual classified theses to enter in the fall. During the five mentary assistance and informaamong the faculty and administrole in important areas of science be undertaken by undergraduate years that Dr. Harriet Hardy tion to students preparing appliand technology that are of great or graduate students must be ap- has been premedical adviser, the cations for admission to medical concern to the Nation. It recog- proved by the Committee on number of completed applications school. thirty-eight per year. No more

program will be established at the single year fail to be admitted to beginning of the Spring Term to medical school. Biology is their aid those MIT undergraduates most common major, although ities Department.

The purpose of the Premedical will be administered from the Of- Advisory Program will be threefice of the Dean of Student Affold. First it will provide informafairs, will be set by a Premedical tion about medical schools and their requirements for admission. Second it will offer opportunities

#### Counselor will not change

It is now planned that a student's Departmental Major Counselor, helped by information and direct assistance from the Premedical Advisory Program, will serve as the students' Premedical Adviser. This procedure will keep Dr. H. E. Carter of the Univer- the number of persons with sity of Illinois, was given "For whom the student must deal at a brilliant contributions to the ma- minimum, and the authority of thematical theories of communi- the Major Department will recations and in formation proces- main unchallenged. For further sing and for his early and con-information, the Counselor will tinuing impact on the develop- ask his students to visit the Premedical Advisory Program Office, and will - at the same time -Professor Shannon, a world send the student's name to the

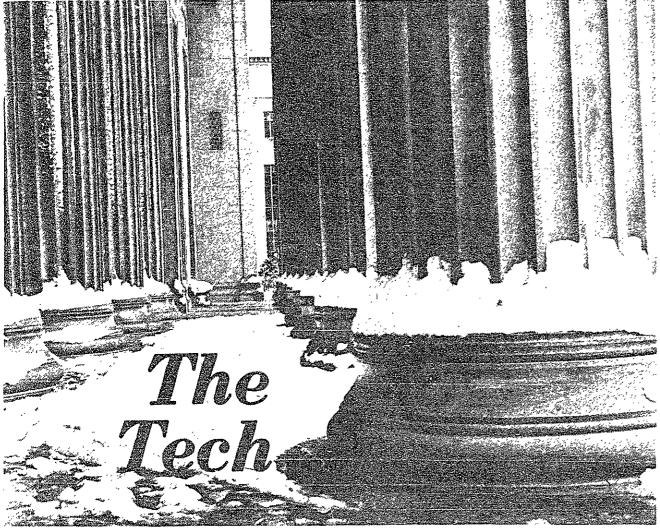
graduate student, and received Dean's Office, after determining both his master's in electrical en- the student's particular interests, gineering and his doctorate in needs, or questions, will refer mathematics in 1940. In this peri- him to one or more appropriate od he worked on the differential Premedical Consultants who can analyzer, an early computer, and provide specialized information wrote a thesis which immediately and counsel. The Premedical Consultants will be MIT faculty or

(Please turn to Page 5)

# in class balloting January 11, 12

Sophomores will have an op- '69 may vote upon presentation of portunity to vote for the appear- their activities cards. cial recognition by reason of from among the offerings of three their outstanding contributions to riffy manufacturers in voting Jan- of the company which will manuary 11 and 12. The balloting will ufacture the '69 brass rat include take place in the lobby of build- price, reliability, and service. The ing ten from 9:30 a.m. to 4:30 class executive committee will The citation, which was made p.m. under the supervision of the on the basis of recommendations sophomores class executive com- mining which company will be

Factors other than the class' judgement concerning appearance which will influence the selection consider these factors along with the result of the voting in deter-



Vol. 86, No. 54

Cambridge, Massachusetts, Friday, January 6, 1967

Five Cents school.

#### policy set research

By Gerry Banner

Institute has been formulated fol-

At present, classified research projects are confined to two Departments in the School of Engiand Aeronautics and Astronautics. A few classified subjects of inpartments of Naval Architecture and Marine Engineering, and Aeronautics and Astronautics, to officers of the armed forces assigned here for advanced training.

The number of classified theses approved is about 20 each year. Almost all are in Electrical Engineering and Aeronautics and Astronautics. Of this 20, about 90% will eventually be declassified.

#### 9 this year

In process now are 9 graduate tute as a whole. theses (5 in EE and 4 in AA) which have approval for possible therefore, that every research classification.

Each of the departments considers carefully the requests for Laboratory and the Instrumentapossible classification of theses. tion Laboratory) which requires a Such requests are then considered classification on the research and approved by the Dean of the Graduate School. Each year there is a review of all such projects by the Committee on Graduate of the President or Provost, who School Policy.

"MIT affirms that the encouragement of research and inquiry into intellectual areas of great promise is one of the most basic obligations to its faculty, to its students, and to society at large. It affirms the profound merits of a policy of open research and free interchange of information among scholars, as essential to this responsibility.

#### Encouragement of inquiry

"In the vast majority of research projects, the encouragement of inquiry wherever the re-

knowledge. However, MIT is an provals. lowing considerable discussion institution that plays a unique nizes that in a very few cases the Graduate School Policy before the has ranged from eighteen to pursuit of knowledge may require work involved is begun." neering: Electrical Engineering access to data or literature of a classified nature, or yields results whose immediate distribution struction are offered by the De- would not be in the best interests of society. It affirms, therefore, that such activities are undertaken only when, after weighing the advantages and disadvantages for the academic program and for the Nation, they are judged to be highly constructive. Since the implementation of classified research has some aspects which are detrimental to the academic environment of the Institute, it is essential that each project be reviewed and acted upon in the light of its impact on the Insti-

"It is the policy of the Institute, project within the academic structure of MIT (excluding Lincoln process or on the publication of results receive the prior approval Professor of Science at MIT, was shall seek the advice of the Com-The statement of policy follows: mittee on Educational Policy in

#### Room vacancies

A few rooms in the Institute Houses may become available for assignment to regular undergraduates for the spring term 1967. Undergraduates who wish to request assignments should file an application card at the Campus Housing Office, Bldg. W31, before Tuesday, January 9.

# Professor Shannon given National Modal of Science



Dr. Claude E. Shannon, recently named to receive National Medal of Science.

Dr. Claude E. Shannon, Donner recently named one of the eleven outstanding American scientists who will receive the National Medal of Science this year. The Medal, the highest honor the nation can give in recognizing extraordinary work in science, is awarded by the President to scientists or engineers "who, in his judgment, are deserving of speknowledge in the physical, biological, mathematical, and engineering sciences."

#### Text of citation

made by a committee headed by mittee. Members of the class of awarded the contract.

ment of these disciplines."

First came as grad student authority on information theory, Advisory Office. first came to MIT in 1936 as a The Premedical Adviser in the affected telephone design.

(Please turn to Page 3)

# Sophs to select brass rat style

ance of class rings they prefer

# Stratton building guided by Murphy

(Continued from Page 1)

Cambridge Public Schools. While still in high school he took a part time job as messenger boy at MIT. Later he came to work full time at the Institute. He was a dedicated and hard working man and rose through the ranks of the Physical Plant Department to be appointed Manager of Kresge Auditorium and the MIT Chapel when they were built.

Many contributions

As the first manager of Kresge, Mr. Murphy helped develop the policies which have made the Auditorium and the Chapel valuable assets to the MIT Community. When construction began on the Julius Adams Stratton Building in 1963, Mr. Murphy was appointed Assistant Superintendent of Building Services with responsibility for the yet-to-be Student Center together with Kresge Auditorium, the Chapel, and the Religious Counsellors' House and the NRSA House.

At the Awards Convocation in 1962, Mr. Murphy was given a surprise honor. At the close of the convocation he was called to the stage by President Julius Stratton and presented with a silver tray and a check from his many MIT friends. President Stratton added "There is hardly anyone at MIT who has not been the beneficiary of your generous spirit."

Loss to APO

Gardiner Gay '67, president of the Alpha Chi Chapter of APO, expressed the feelings of all in saying, "Alpha Chi Chapter of Alpha Phi Omega is deeply saddened by the loss of Brothers Murphy, Wright, Keil, Augustine, and Arlen. The theme of the APO National Convention to which they were headed was 'In Brotherhood—Carry On.' Alpha Chi's spirit is strong, and APO at MIT will carry on."

# Prof. Mason appointed RLE associate director

Prof. Samuel J. Mason has been appointed Associate Director of the Research Laboratory of Electronics. Prof. Mason, who has been a staff member of the Laboratory since 1945 and a faculty member of the Department of Electrical Engineering since 1945, holds a Bachelor's degree from Rutgers University, and Master's and Doctorate degrees from MIT.

During World War II, Prof. Mason worked on microwave radar antennas at the MIT Radiation Laboratory. His more recent work includes research on sensory aids for the blind, real-time data processing, and the psycho-physics of tactile and auditory displays.

As leader of the Cognitive Information Processing Group in RLE, he has played a major role in the development of experimental reading-machine systems.

Prof. Mason is a member of Tau Beta Pi, Eta Kappa Nu, and Sigma Xi, a Fellow of the IEEE, and a member of the Biomedical Training Committee of the National Institute of General Medical Science.

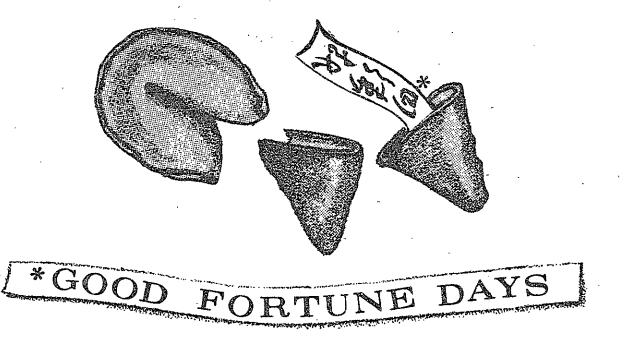
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\$3.00 Off Regular Marked Prices! On \$16.95 Trousers (pre-cuffed) only.

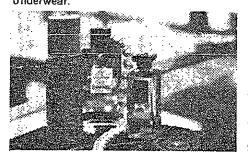
Sale On: Bostonian Shoes — Camp Hosiery — Forum Sweaters — Ties — Dunster Shirts & Pajamas — Sports Shirts.



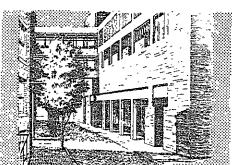
WOMEN'S DEPARTMENT Street Floor, Main Store

HANES ANNUAL HOSIERY SALE JAN. 14-21

Sale On: Maidenform Bras & Panty Girdles, Permalift Bras & Girdles, Mary Chess Cream Body Massage & Bubble Bath Essence — Elizabeth Arden, Miss Dior, Yardley Soap, Vera Scarfs . . . Jewelry Samples, Plus Markdowns on Blouses, Sweaters, Sized Kneehose and Odd lot





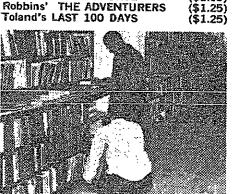


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BIG NEWS! Best Sellers — in paperback. Watch for these four (4) big best sellers to hit the Coop during January:

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RECORD SHOP, 2nd FLOOR New Book Building

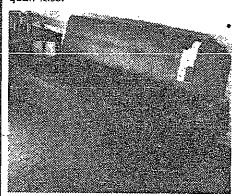
Sale on classical stereo, Mix and Match Classical, Folk, Jazz & Pop — Catalogue Cut-outs — Selected Imports — All at big savings.

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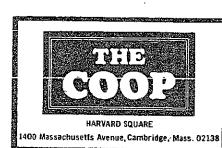
#### APPLIANCE DEPARTMENT, Main Store

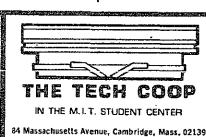
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Regular Hours: 8:50-5:30, Monday - Saturday.

6.716 - Particle Optics

**Projects Laboratory** 

Prereq.: 6.03 or 8.05 or 8.051

(Prof. Crawford)

Year: U (2)-Limited enrollment

Special projects involving low energy electrons and ions and their interactions with fields and surfaces. Typical projects include design and testing of mass spectrometers, low magnification electron microscopes, high power beams, electron multipliers, and special cathode ray tubes. Other studies may concern secondary emission, electron diffraction, microminiaturization of computer components using electron induced chemistry, thin films, or other areas of student or faculty interest.

6.717 - Audio Frequency

Communications

Project Laboratory

Prereq.: 6.01 (Mr. Blesser)

Year: U (2)-2-8-2

Year: U (2)—2-8-2

Application of technical, financial and aesthetic considerations to the design of audio systems. Some of the following will be used as illustrations of the principles of design: transmitters, mixing consoles, multiplexing, tape recording, record cutting, dynamic range compression and limiting, bandwidth compression, etc. Systems will be discussed in terms of effective S/N, power limitation, bandwidth, cost, size, and the nature of the signals being handled. Students are to choose a particular problem which they will formulate in technical terms and perform a feasibility study in the laboratory.

Please consult the instructors

listed on registration day, if in-

13 fraternities, 2 dorms

terested in these courses.

# Dean's office states rules concerning final exams

the case of an undergraduate stu- is offered, and if the instructor is dent, or the Dean of the Graduate prepared to submit a grade based School in the case of a graduate on other evidence. student, may excuse a student from a scheduled final examination for reasons of illness or sig-final examination is given during Prereq.: 6.70, 6.01 (Prof. Troxel) nificant personal problems by the prescribed period, no written issuing the grade of OX. An in-examinations or quizzes shall be structor in charge of a subject given during the three days, Sunmay excuse a student from a final days excepted, preceeding the examination which has been post-reading period. (January 16 to poned for reasons other than ex- January 18, inclusive). For each cuse by the Dean, such as conflicts between examinations or with religious holidays, if a mutually satisfactory agreement can be reached between the student and the instructor, if the agreement is ratified in advance of this examination by the Head of the

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The heart is deceitful above all The heart is deceifful above all things, and desperately wicked, it who can know it? Jeremiah 17:9 everyone of you in the name of Jesus Christ for the remission of the sins, and ye shall receive the gift of the Holy Ghost. Acts 2:38.

The Dean of Student Affairs in Department in which the subject

#### Final Quizzes

For each subject in which a subject in which no final examination is given during the prescribed examination period, no more than one written exercise of not more than one hour (one class period in the case of laboratory or design subjects) shall be given during the three days, Sundays excepted, preceding the reading period.

during reading period. No assignments shall be scheduled to be submitted during the reading

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# describes lab

Below are listed some additional Electrical Engineering laboratory courses that are being offered in the Spring 1967 which did not appear in the

#### 6.711 — Digital Systems Project Laboratory

the prescribed period, no written examinations or quizzes shall be given during the three days, Sundays excepted, preceding the reading period. (January 16 to January 18, inclusive). For each subject in which no final examination is given during the prescribed examination period, no more than one written exercise of not more than one hour (one class period in the case of laboratory or design subjects) shall be given during the three days, Sundays excepted, preceding the given during the three days, Sundays excepted, preceding the given during the three days, Sundays excepted, preceding the given during reading period.

Reading Period

No examinations is given during the presentation and a written report are required at the end of the term.

Year: U (1)—Limited to 40—2-8-2

The digital systems project laborators intended to introduce the student to some of the basic techniques and devices used in the design and implementation of digital computing and control systems. In preparation for projects, the first several weeks of the term will be spent in a combination of classes, homework, and associated laboratory experiments with digital integrated circuits. Logic design will be covered in some detail including beclean algebra. Synthesis of sequential circuits; other topics such as memory devices may be investigated if time permits.

Project possibilities are limited only by your imaginations and our supply of logic, both of which we hope will be abundant. Previous projects have included arithmetic (+, -, +, x, v), etc.), game playing machines (tic-tac-toe, Nim, Blackjack, jigsaw puzzles, coin flippers), delay line memories, coders and decoders, analog to digital converters, and digital television. All projects will be implemented with microcircuit logic elements. An oral presentation and a written report are required at the end of the term. Year: U (1)-Limited to 40-2-8-2

#### 6.712 — Bioelectronics Project Laboratory

Prereq.: 6.70, 6.01, and 6.02, or permission of instructor (Prof. Burns)

Year: U (1)-Limited to 20-2-8-2 Year: U (1)—Limited to 20—2-8-2

Electronics and the methods of electrical engineering are taking an increasingly important role in the life sciences. The principal emphasis of this subject is the design of electronic circuits and systems which may be useful in medicine, biology, or psychology. Included will be background material intended to introduce the student to some of the problems in medicine and electrophysiclogy. The physiological basis of electrical potentials in living systems will be discussed. Examples of useful instrumentation techniques will be presented.

Slightly less than half of the term will be spent in acquiring some

physiological background and in developing a considerable familiarity with the design of amplifiers, oscillators, filters, switching and pulse circuitry and digital systems. One lecture each week will be devoted to the life sciences and a second lecture will cover circuit design. Laboratory exercises and demonstrations will accompany the lectures. In the remaining weeks of the term the student will work on a project directly applicable to some problem in the life sciences. Students will be encouraged to participate in group projects involving relatively sophisticated systems in which each student contributes a functional component. The projects will be selected both on the basis of their educational properties and on their possibility of being actually useful. The opportunity of collaboration with a Boston-area hospital exists. Both a written and an oral report will be expected from each student.

#### 6.713 — Communications Systems **Project Laboratory**

Prereq.: 6.70, 6.01 Not offered U (2)

#### 6.714 - Electronic Light Measurements

Prereq.: 6.02 (Prof. Edgerton) Year: U (1,2)-2-8-2

Year: U (1,2)—2-8-2

Principles of the use of light and radiation in pulse form for photography, measurement, and energy conversion. Study and use of instruments for the evaluation of pulsed light sources for spectral content, efficiency, and pulse duration. Theory of electronic flash lamps and their application to stroboscopes, photographic light sources, laser stimulators, and instrumentation devices. Use of flash photography to identify and determine position, velocity, and acceleration of objects in space. Frequent laboratory and demonstration experiments to illustrate application of techniques to engineering and scientific measurements.

#### 6.715 - Electromechanics **Project Laboratory**

Prereq.: 6.70 and 6.01 (Prof. Woodson) Coreq.: 6.03

Year: U (1, 2)-Limited to 12 2-8-2

Laboratory projects course illustrating basic phenomena in electromechanics. Experiments in the areas of lumped-parameter rigid body electromechanics, continuum fluidfield interactions, feedback control of electromechanical systems, electromagnetic fields in the presence of moving materials. Students will

#### Scientists disagree

# Surface of moon studied at annual AAAS symposium

By John Corwin

coveries about the moon and its face, scientists continue their reneighbor.

Among the reports at the special lunar symposium sponsored recently by the American Association for the Advancement of Science and the American Astronautical Society were:

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(1) The discovery of "hot spots" In the face of four recent dis- which might indicate volcanic activity beneath the surface;

(2) A finding that "blocks of spective searches for evidence to material" seen by lunar Orbiter bolster their personal, conflicting spacecraft are arranged in ways theories about Earth's nearest which suggest they may be volcanic in origin;

(3) A statement by the Lincoln Laboratory of MIT that its radarbased conclusions about the moon's surface were inaccurate;

(4) The latest theory of F. Fred TCA. Singer, which suggests that the idea of a "lunar capture" by the earth's gravitational field may not be terribly far-fetched.

Some astronomers feel that the lunar landscape is deeply dusty, perhaps layer upon layer; while others believe it to be hard, consisting of consolidated particles.

hold Christmas parties Thirteen MIT fraternities and

two dormitories gave Christmas parties for some 300 Cambridge children from local settlement houses December 10 and 17. The annual afternoon parties, held in conjunction with Cambridge Neighborhood House, Christ Child Society, Elizabeth Peabody House, and East End Union, were given at Bexley Hall, Ashdown House, Phi Kappa Sigma, Lambda Chi Alpha, Phi Gamma Delta, Alpha Tau Omega, Sigma Phi Epsilon, Chi Phi, Theta Xi, Phi Kappa Theta, Phi Mu Delta, Sigma Chi, Beta Theta Pi, Delta Upsilon, and Theta Delta Chi.

Overseeing arrangements for the parties were Dean Roller '70 of East Campus and Jay Nichols '68 of Theta Xi, vice president of

#### Shannon named in 1958 to Donner professorship

(Continued from Page 1)

Following graduation, Professor Shannon joined the staff of the Bell Telephone Laboratories, where he did research combining mathematics and electronics in the study of the relationship between man and his environment, the field which was to become the new science of information

Returned as Professor in 1956

In 1956, he returned to MIT as a visiting professor of electrical communications. In 1957 he became a regular member of the faculty with the somewhat extraordinary title of Professor of Communications Sciences in the Department of Electrical Engincering and Professor of Mathematics. In 1958, when the Institute received a \$500,000 grant from the Donner Foundation for the establishment of a professorship in the physical sciences, Professor Shannon was named to the post he currently holds.

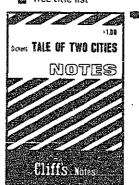
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# A lost friend

Uncountable numbers of students, alumni, faculty and staff lost a cherished friend in a tragic automobile accident in Wisconsin during the Christmas break.

James N. Murphy had a title, Assistant Superintendent of Building Services, but to those who worked with him he was Jim Murphy, the guy who would help with any problem you brought him.

## Half a loaf

Seniors who have picked up their registration material for next term know that the faculty voted in December's faculty meeting to allow seniors to take one elective course on a pass-fail basis.

The ruling stipulates that the course taken on this basis must not be either an Institute or departmental requirement and stresses the experimental nature of the whole program. While we are surprised and pleased with the speed shown by the Committee on Educational Policy and the faculty in adopting and implementing a pass-fail system of any type, we do feel the present experiment is a bit too timid.

Seniors, especially in their second term, have a pretty set plan of course taking. If a pass-fail system is to encourage plunges into unfamiliar but rewarding fields it should be extended into the junior and sophomore years when students are less devoted to their chosen fields.

While it is true that 'half a loaf is better than none' we hope the faculty will take the first opportunity to extend what looks to us like a reasonable and workable pass-fail system into the next two lower classes.

For years he was the man who made staging a play, lecture, or movie in Kresge possible for student groups. Even more importantly, he was the man who deserves most of the credit for making the Stratton Building a very successful student center.

People who run student activities will miss Jim more than anyone else. His constant interest in their problems and plans was stimulating and helpful. It is characteristic that he was killed while traveling to an APO convention as advisor to our chapter.

A memorial service will be held Monday at 4:30 pm in Kresge. We sincerely hope that those who benefitted so greatly from Jim's friendship and service will attend.

# 

Vol. LXXXVI, No. 54 Jan. 6, 1967

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# Land by Mike Rodburg

135. The Chronicle of Higher Education is a new weekly pa- rector of the MIT-Harvard Joint per published during the school Center for Urban Studies, will year and dealing with educa- see some direct action from his tion trends and issues on the testimony before the Ribicoff campuses, for educators. Volume committee last month. Senator I, Number I, chose to interview Abraham Ribicoff plans to enact President Howard Johnson, the present Congress to enact speaking of MIT's traditional Moynihan's proposal for an goals and direction. In answer "Office of Legislative Evaluato the charge that much of tion." The Office would examine MIT's budget comes from the the value and social effects of Department of Defense and governmental programs much in NASA funds, President Johnson the same manner that the Genexplained that most of this eral Accounting Office audits money accrues to Lincoln Labs, them. It is hoped such a body which is removed from the main could stave off the increasing academic complex. To the ques- lack of confidence in the govtion, what about pressures on ernment's efforts to deal with the MIT student, his answer be- urban problems. Not everyone gan, "The pressure is heavy, as has endorsed the proposal; Senwe think the pressure of life is ator Jacob Javits is openly heavy on people with talent. skeptical about its value. And I think it will continue to be heavy."

The last question was a bit unexpected; he was asked, are you bored or annoyed with comparison between you and Howard Johnson, the restauranteur? He replied, "They roll off my back, by now. The nicest thing anybody has said to me on this score recently is what a friend of mine said, after I became president. The next time charges are made with lifted he saw the other Howard John- cards. Usually the thief only son he was going to say, 'Are strikes once. Because of the you any relation to the REAL difficulties involved in a store Howard Johnson?'" Will the where credit cards are used so real Howard Johnson please frequently, few passers are ever stand up.

136. Daniel P. Moynihan, di-

137. Though the stolen credit card ring at the Coop was never caught, they have been inactive since October. At that time they hit the Coop a number of times using stolen cards and netted less than \$1000 in merchandise. The problem of stolen cards still remains, how-

Every year 25-30 illegal

# Letters

#### Shelved idea

To the Editor:

tion to improve library service. Reserve Book Room. Thus, their Europe and Los Angeles and two many purposes. Two of their most tremely well known, which im- price of this year's flight to important ones are:

tilization ground and source of in-possible tunneling effect. formation, satisfaction and inspiration for the beautiful minds of MIT to wander through.

Right now the Science Library's To the Editor: reserve books are shelved in a Recently posters promoting stutant purpose (2) impossible.

were taken off freely accessible offered this year? shelves, and have concluded that From all obcious indications, I say that I am shocked and ap-basis of interviews, activities rec-number of Boston merchants and perhaps one motivation was the TSE is a successful organization palled that a university as dis-ords, interests, and by discussions interesting them in the discount theft that occurred (that is, people with the backing of the MIT ad- tinguished as MIT allows such a with professors familiar with the program. Anyone who might be either walked off with reserve ministration. It is to be operated situation to exist. In view of the student's work. books or hid them in the library). with the best interests of the stu- present campus building pro-I'd appreciate someone telling me dents in mind. A similar agency gram, increased tuition, and

bility of the Science Library's re- Group flights to Europe do not grettable. serve books, which are now in offer comparable savings.

the closed stacks of the Reserve About two years ago, TSE had Book Room, I suggest they be a very successful flight program, I would like to make a sugges- placed on open shelves around the yielding a Christmas flight to Books placed on reserve serve location, delta X, will be ex- charter flights at two-thirds the plies that their use by more Europe for the summer. (1) They are the best references people, delta p, will be much (2) They represent a cross-fer- of the RBR will counteract any tential of the MIT community.

#### TSE trips

restricted area. They can only be dent flights to Europe for the obtained if you know exactly summer, 1967 have appeared on which book you want and you campus. These flights are to be ask the librarian to get it for you. organized and operated by the The inflexibility of the present Tech Travel Service, an agency Science Library reserve book sys- of Technology Student Enter- dents in the Department of Architem (in contrast to the Student prises. Apparently, no charter tecture, I have been somewhat Center's system and the Engineer- flights are being planned, since aware of the cramped conditions ing Library's system) makes pur- the price displayed can only be and lack of space in which the pose (1) inconvenient to achieve, taken to be a group flight price. students are forced to work. I and it makes the equally impor- My question is quite simple: Why, did not realize, however, the full if charter flights were successful extent of this problem until read- W20-401, before Wednesday, will offer a handsome salary and I have wondered why the books in the past, are they not being ing the article in the Friday, De-

That program yielded a subfor certain information assigned greater than h-bar. A friendly, stantial profit for TSE and clearin courses or needed in research. diligent book checker at the door ly showed the flight market po-

very economical rates.

#### Shocked mother

To the Editor:

As a parent of one of the stu-

#### inside inscomm

## Inscomm to sponsor delegates to six intercollegiate conferences

-By Frank March, UAP.-

intercollegiate conferences. Conferences

United Nations at the University space becomes available. of Wisconsin at Milwaukee April 6-9, a conference entitled Where The elections for UAP, class are we headed a World in Unrest officers, and International Stu-I would like to suggest that at Fairleigh-Dickinson February dents Council officers will be held Edward T. Cutler '65 charter flights be again attempt 10-11, and a conference at Rehis Tuesday, February 28. Petitions ed so that we of the MIT com- on Southeast Asia in April. Dele- required for running for office munity may once again travel at gates will also be sent to Wake will be available on Registration Forest March 24 for The Impli- Day. A program is presently be-George R. Berbeco, 'G cations of Propserity, Principia ing planned which would bring on April 12-15 for Poverty, Crime, together all the UAP candidates Rights; A Plan for Action, and for a large scale debate in the The Scholar in Foreign Policy at Student Center, probably the week Radcliffe February 17-18.

Approximately fifteen students will be sent to these conferences at the expense of the Institute for a program to set up a student Committee. Anyone wishing to be discount system in Boston, being a delegate to any one of these sponsored by the Boston Interconferences should sign up for an collegiate Council and the Nationinterview in the Inscomm office, al Student Association. The job January 11. Decisions concerning travel plan benefits. The work cember 16 issue of The Tech. May delegates will be made on the would consist of contracting a

#### Dormcon Office

At the Institute Committee other possible (or actual) rea- at Harvard has continued their President Howard Johnson's pro- meeting of December 15, a mocharter flight service, offering the posed added emphasis on the tion was passed granting the In order to improve the accessi- students a real saving in travel. Arts, this situation is doubly re- Dormitory Council office space in the Student Center. The group will Marjorie Wolfe Roberts be temporarily housed in the

The Institute Committee is mak- former TCA Baker Print room, in ing plans to send delegates to six which the Activities Secretary is now located. Further assignments will be made by the Institute The conferences are a Model Committee when appropriate

#### Election

before the election.

#### Strident Discounts

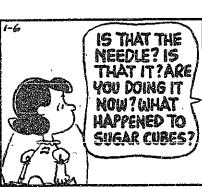
An interested worker is needed interested should leave his name at the Inscomm Office with Miss Hendrick.

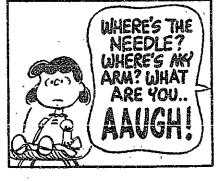
#### Conference Topic Committee

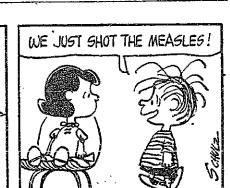
The committee to choose a topic for the 1968 MIT intercollegiate conference has focused its study on The American Educational System. Further work is being done to identify specific areas of concern within the general topic. If anyone is interested in this topic or in aiding in further discussions concerned with focusing the direction of the conference should contact Steve Maser, X3205.

The next Institute Committee meeting will be Sunday, January 15, at 2 p.m. in the Inscomm meeting room.









# frosh elective offered

space Engineering, has been an-catalogue. spring term. A description will be research and development in fluid in room 33-319.

A new freshman elective, Aero- included in next year's general mechanics and propulsion materi-

nounced by Dr. Raymond L. Topics to be covered by the trol, flight guidance, and inter-Bisplinghoff, head of the Depart- elective include Aerospace techment of Aeronautics and Astro-nology, with the Apollo moon shot nautics. The 3-0-3 elective, numb- and the Supersonic Transport as ered 16.82, will be offered in the examples, mission analyses, and

als and structure, automatic conaction among these disciplines in flight vehicle design. The elective is to be taught by the department staff, and is to be offered Monday, Wednesday and Friday at 2 p.m.



Last year, thousands accountants, engineers, doctors and businessmen went back to college.

# And not just for the football games.

We'd like to clear up what appears to be a misunderstanding. It is somewhat popular on campus to decry a business career on the grounds that you stop learning once you start working for Cliché Nuts & Bolts.

That idea is groundless. We can't speak for Cliché, but we can for ourselves-Western Electric, the manufacturing and supply unit of the Bell System. 6 out of 10 college graduates who have joined us over the past 10 years, for example, have continued their higher education.

How're these for openers.

W.E.'s Tuition Refund Plan lets employees pursue degrees while working for us. Over 6 thousand have attended schools in 41 states under this plan. We refund more than \$1 million in tuition costs to employees

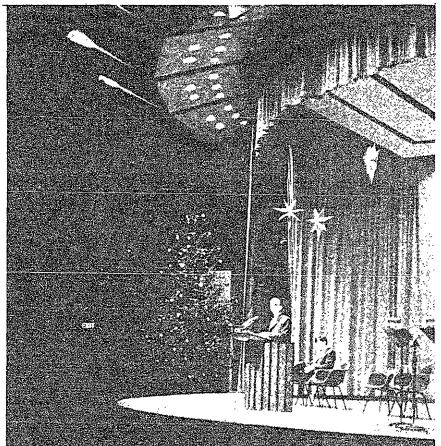
To name another program: advanced engineering study, under the direction of Lehigh University, is conducted at our Engineering Research Center in Princeton, N. J. Selected employees are sent there from all over the country for a year's concentrated study leading to a master's

You get the idea. We're for more learning in our business. After all, Western Electric doesn't make buggy whips. We make advanced communications equipment. And the Bell telephone network will need even more sophisticated devices by the time your fifth reunion rolls around. The state of the art, never static, is where the action is.

At Western Electric, what's happening is the excitement and satisfaction of continued doing and learning. If this happens to appeal to you, no matter what degree you're aiming for, check us out. And grab a piece of the action.



# President Howard Johnson talks at annual Christmas Convocation



Speaking at the Christmas Convocation, MIT President Howard Johnson examined the permanent qualities of Christmas and the responsibilities of the MIT community. A dramatic reading and musical presentations completed the program.

#### Silverman business manager

# Newlocalundergradpaper hopes for large circulation

ag a of Boston's new intercol- first intercollegiate newspaper. legiate newspaper, the Cauldron. The Cauldron hopes to have a circulation of 100,000 by next Aliens must file reports year, giving it the largest circulation of any undergraduate pa- of activesses this month per in the country. Affiliated colleges will receive a total of 50,-

plan the paper. tion was to report on projects of dress has changed since the last work-study students at the Hun- such report. Any alien who does tington YMCA; thus the newspa- not comply with this law is subper's executives are now receiv- ject to deportation and may be ing part-time salaries from fed- fined or imprisoned prior to deeral funds.

a good number of Boston's col- Commonwealth.

leges and it is hoped this is an Jeffrey Silverman '68 has as- indication that the Cauldron will sumed the post of business man- grow successfully as Boston's

United States law requires 000 copies February 9, free of every non-citizen in the country charge. An affiliated college is as of January 1 to file an address one which has at least one stu-report at a post office or Immident who writes articles or helps gration and Naturalization Service office during the month of The newspaper's original func- January, whether or not his adgovernment work-study portation. Governor John A. Volpe of Massachusetts has pro-The staff of the Cauldron is claimed January as Alien Adnow composed of students from dress Report Month in the

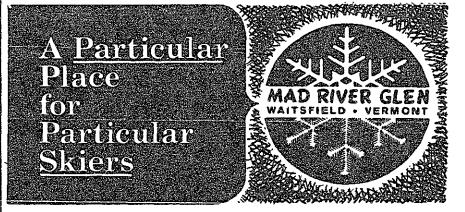
# Pre-med advisory program to aid 54 undergraduates

(Continued from Page 1) of medical practice or research. Aid on application

gram will continue one of Dr.



Hardy's major concerns and constaff members, or selected per- tributions as Premedical Adviser sons outside MIT who can speak by helping students to obtain with authority about various fields faculty recommendations and other data required by them for The Premedical Advisory Pro- preparation of medical school admision applications. This assistance will not, however, constitute any official endorsement of the student by MIT The Premedical Advisory Program will not act as a screening group or preliminary admissions office for the medical schools.



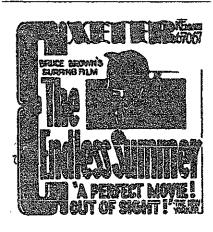
By Paul Linsay man; even with his mad-hatter top-hat on he seems to be shorter than anyone else present. When one talks with him, Coleman is

inaudibility. He is somewhat shy and self-effacing, quite indifferent to the currents of opinion and criticism, and is interested only in music, especially in playing

#### Huge On Stage

and creating jazz.

again. Coleman looks huge in his brilliant white suit holding onto a saxophone that seems almost tiny as he curls his shoulders and arms around its flashing golden metal. The music that comes out is also something that does not thematic direction. These abrupt seem to fit the man's personality.



The smoothness and evenness of terized by the constant use of disthat is much too high.

On stage he is something else and thematic content of the mu- Izenzon or Moffet who would set be divided into two columns and sic itself. Coleman would begin a piece with a particular idea in mind, have the drum and bass complement and embellish this idea, and then suddenly finding a come in for a special mention. new idea suggested by the old one, go spinning off in a new transitions, often coming without introduction or warning, has the disturbing effect of dividing up one large number into three or four or sometimes even five unrelated smaller pieces. An interesting device that Coleman uses is that of inserting familiar and popular music in a distorted and contorted form into the pieces. One of the best numbers of the evening wrapped itself around "White Christmas."

#### Shifting Rhythms

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Throughout the entire concert the music of the trio was charac-

Ornette Coleman is not a big his calm is gone. The sound goes sonance and shifting rhythms. from loud to soft suddenly, the Ornette would begin a number on music runs up and down the scale, his trumpet or saxophone with Dait jump-shifts all the registers vid Izenzon, bass, and Charles soft-spoken almost to the point of Sometimes a note suddenly ap- Moffet, drums, following closely. pears that is two octaves too Gradually they would all diverse low, sometimes there is an extra to treat the theme set up by Colenote in the middle of a passage man in their own manner and at their own pace. After a while This jumping and shifting of the they would all come back togethnotes extends itself into the style er again, the lead would pass to another theme and the cycle would wil be changed daily. The forty start over again.

The bassist, David Izenzon, must unified and emphasized every-

And it was this unified strucmusically and intellectually challenging evening of jazz for the MIT community.

#### '69 to blast off Jan. 14 in Sala

The class of 1969 has seen to it that a suitable opportunity for the difficult to limit one's choices to release of assorted emotions will three, three can generally be be provided before reading period. From 8 to 12 pm January 14, the moment. Personally, my choice Pandoras and the Insex will pro- of three depends on my mood. vide music for a blast in Lobdell The time span covered by the listand the Sala.

\$3.50 per couple includes liquid low." Everything on the list was refreshment. This will be the last released as a single and made opportunity for the sophomore either Billboard's top twenty or class to raise funds before next Boston's top ten at one time or fall's JP.

The favorite singles ballot will leaders at the beginning of the day will be listed in the left column, with the other forty in the right column. In choosing the 80 For most of the concert he played songs to list on the ballot, and the bass in the classic style with the 40 to put in the left column a bow but nevertheless, produced the first day, I have considered sounds that are ineffable. The national and Boston popularity, glizzandos, harmonics, and double appeal to an MIT student, and notes went into making music that general importance of the song. There will be no write-ins of songs thing that Coleman was trying to not on the ballot as there was last of 1965 were: year. The purpose of the division into columns is to provide a ture of the trio that provided a less formidable list (the left 40 as opposed to all 80) to the nurri d Techman, while still mantainia a large number of songs on the ballot.

#### Arbitrary Choice

The choice of three (or fewer) songs to be checked is somewhat arbitrary, but was quite successful last year. Although it may be chosen which satisfy one at the ed songs is roughly "California Dress will be sport clothes, and Dreamin' "through "Mellow Yelanother.

The second annual Talking Rock The favorite artist part is new poll will be conducted next week, this year. This is an important January 9-13, in the lobby of part because many Institute ac-Building Ten. The poll will be tivities who bring in talent are basically the same as last year's interested in what the Techman successful one. The two categor- would like to see. No suggested ies are Favorite Artist (write in list is included here, just a spot your favorite three artists) and at the bottom of the ballot to Favorite Song of 1966 (check off write in three artists. The idea your three favorites from a list here is that any popular music artist, who recorded in 1966 is eligible. Artists should be in the same general category as those performing the songs listed on the ballot. Artists can be judged for their career performance rather than their 1966 performances.

Results Published

The results of both polls will be published and comments made in the first issue of The Tech in the second term. Current results will generally be available at the booth. Last year's poll drew 1041 responses. MIT's ten favorites

- 1. Satisfaction
- 2. Sounds of Silence
- 3. Downtown
- 4. Cast Your Fate to the Wind
- 5. Yesterday
- 6. Help
- 7. Mr. Tambourine Man
- 8. Your Were On My Mind
- 9. The In Crowd
- 10. You've Lost That Lovin' Feelin'.

This indicated that the Techmen enjoy folk and jazz more than the average popular record buyer. It will be interesting to note if this generalization holds in

#### String quartet series features Soviet group

The Borodin Quartet will make its second appearance on the MIT campus at a concert in Kresge Auditorium January 12 at 8:15

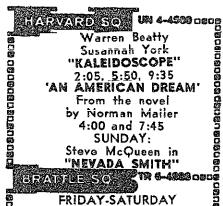
The Soviet string group, originally called the Moscow Philharmonic Quaret, will perform quartets by Shostakovitch, Prokofiev.and Beethoven as the third MIT Humanities Series concert of the season. The Drolc and Hungarian Quartets were featured earlier this year.

Tickets are available at the door for \$3 or reservations may be made by calling Kresge Auditorium at x2910.

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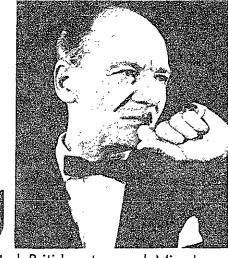
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# Kresge performance features famous Shakespearian actors





Sir John Gielaud, the noted British actor, and Miss Irene Worth will both be featured in the pre-Broadway performance of 'Men and Women of Shakespeare' in Kresge January 17.

Sir John Gielgud and Miss Irene television and received the Emmy Broadway presentation of "Men and Women of Shakespeare" January 17 at 8:30 p.m. in Kresge Auditorium.

The presentation, sponsored by the Department of Humanities in cooperation with the LSC, will be which was subsequently taped for ing x2910.

Worth will perform in a pre- award last year. Both Miss Worth and Sir John have been lead performers for the Old Vic and the Royal Shakespeare Company, Gielgud at times alternating roles with Sir Laurence Olivier.

organized along the lines of Giel- \$2. Tickets may be purchased in dicate that this accompanied the gud's solo recital, "Ages of Man," the lobby of building 10, or by call-paroxysm of fear that engulfs Mr.

#### theatres...

# Cowardly Hamlet detracts from play

By Paul Linsay

it is doubtful that it was tortured been forewarned of the ghosts by would dislike him even without in quite the same way that Ed. Horatio and the lines following his the old king's murder. The rest ward Zang would like us to be- prayer for protection point to a of the cast puts in a fine performlieve. Mr. Zang plays the part certain courage that could not be ance too, especially Lynn Milgrim of Hamlet in the Charles Play- preceded by a frantic fear. house's current production of this

The interpretation of Hamlet that seems to be put forth in this production is that of a not quite strong or fearless man who is impelled to revenge his father's murder. He is not played this way throughout the play, but this effect, created in the first act, is never completely dispelled afterwards.

Oppressed by Fear

his father's ghost, Zang creates a Hamlet who is oppressed by fear as well as the burden of revenge. True, Hamlet exclaims "Angels and ministers of grace defend us!" at the sight of his father's All seats are reserved and cost spirit, yet there is nothing to in2. Tickets may be purchased in dicate that this accompanied the Astor — 'Funeral in Berlin,' 9:45, 1:45, 1:45, 3:45, 5:45, 7:45, 9:45, (Sun. 1:15, 3:15, 5:15, 7:15, 9:15). Zang. The lines of the play indi-

cate a considerably more re- marked complexion gives him that

It is unfortunate that this little scene in the first act colors the remaining four acts and so unfairly flavors Hamlet's character. Throughout the rest of the play the interpretation is much more in line with what seems to be Hamlet's true character, that of a sensitive, pensive but not weak

#### Fine Performance

From the moment Hamlet meets by Louis Zorich was much more house has put out a respectable successful than that of Hamlet by production of Shakespeare's trag-Zorich's ruddy, pock- edy.

Shakespeare's Hamlet unques- strained reaction to the ghost. Un- coarse quality that makes it imtionably had a tortured soul but doubtedy he is afraid, but he has mediately apparent why Hamlet as Ophelia whose mad scene is heart-rending.

In case the audience does not get the idea that something is afoul in Denmark, the theater has added electronic music to introduce the ghost and keep the landscape properly dreary between scenes. The plain stage, done in black, is also used with good effect to permeate the air with a feeling of "murder most foul."

The weak scene in act one not-The interpretation of Claudius withstanding, the Charles Play-

#### movie ...

# Slapstick attempt proves unoriginal

By Jeff Stokes

You sit there, and wait for something funny to happen. The comic routines in 'After the Fox' have been kanded down through generations of slapstick artists, and it seems that Peter Sellers is on the receiving end. You're wrong: we're on the receiving end, which means we have to put up with it. If it were Charlie Chaplin or Harry Langdon going through these antics, we would be delighted, because they were original artists in their own day, and besides, those old rinky-dink silents are just plain fun.

Outdone by a cat For one thing, they didn't have to compete with Pink Panther cartoons. It seems that the creator of this faded scarlet motif has gone into cartoon business and he might as well go into it full time, because the Pink Pussyat has outshone his own former ostar. Pretty poor competition,

but that is the way it is. Peter Sellers was better in 'The World of Henry Orient,' where he wasn't even the center of focus. In the present fiasco he starts out in prison, a good place for him to be, and from which he escapes by the age-old method of disguising himself as someone else, in this case a visiting docfor. In this prison, by the way, it is the prisoners who bring heir visiting relatives gifts, since they seem to have no trouble breaking out for occasional forays into the countryside. Apparently the prisoners lead better lives han the unconvicted. In this we discern a possible commentary 'After the Fox,' directed by Vittorio de Sica: starring Peter Sellers and Victor Mature; now playing at the Beacon Hill Theatre.

#### Side glance at poverty

Indeed, there is poverty everywhere Peter and his sidekicks venture. The little town on the coast to which he brings his sham filming crew is so destitute that the police chief, when offered a cigarette, shoves it into a box with the cigar he keeps to offer visitors. Who is directing? Vittorio de Sica, who might very well want to work in something about the economic conditions of his own country, for the benefit of Americans.

#### The ugly American

Speaking of the New World, there is in this film a movie hero on the point of fading into middle age, Victor Mature. Our boy Peter easily dupes him into helping his little plot to land the gold of Cairo. The Italians, and especially the females, go to pieces over him, and he is protected by the police, as are also protected any of his associates, including Peter Sellers. He is a disgusting character, since the part calls for it, and hence Victor Mature does not have to do much acting to portray this role. Easily flattered, like everyone else in the picture, he stands in sharp contrast to the simple people of that quaint Italian village; a symbol of not only Hollywood but of America and its coarse, commercial culture.

That's another thing: the film on the leakiness of Italion pris-could be interpreted as a satire ms or on the poverty of the on the gullibility of human be-People, or on both for that mat-ings in the face of flattery. Indeed, they try to pass this pro-

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JORDAN HALL

# ERC

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nouncement off as the moral of the story. But we suspect that Cinema Kenmore Square — 'Shoot Loud, Louder.' this human failing was used as Cleveland Circle—'Is Paris Burning, more of a crutch than anything else; otherwise Sellers would never get away with most of the things he does.

#### Accidental genius

We also suspect that Peter Sellers movies are made the same way he himself tries to make one in this film: improvised on the spot, off the cuff, whatever occurs to him as material worth the box office. What comes out is a take-off on existentialist art:

(Please turn to Page 9)

#### Mavies theatres ama

MOVIES

Beacon Hill—'After the Fox,' 10, 12, 2, 4, 6, 8, 10 (Sun. 1:30, 3:30, 5:30, 7:30, 9:30).

Boston Cinerama — 'Grand Prix,' 8:15, Sat., Sun. mat. 2, Sun. 7:30.

Brattle — 'The Ladykillers,' 5:30, 7:30, 9:30 (Sat., Sun. 3:30, 5:30, 7:30, 9:30).

Cheri I—'Georgy Girl,' 10:15, 12:15, 2:15, 4:15, 6:15, 8:15, 10:15 (Sun. 1:45, 3:45, 5:45, 7:45, 9:45).

Cheri II—'A Funny Thing Happened on the Way to the Forum,' 9:45, 11:45, 1:45, 3:45, 5:45, 7:45, 9:45 Sun. 1:30, 3:30, 5:30, 7:30, 9:30).

8:30; Sat., Sun. mat. 2; Sun. 8. Coolidge Corner — 'Fortune Cookie' and 'A Thousand Clowns,' 12:45,

7:30. Exeter — 'The Endless Summer,' 2, 3:40, 5:25, 7:15, 9:10. Fine Arts-'Lord of the Flies' and

Gary — 'Hawaii,' 8:30; Sat., Sun., Wed. mat. 2; Sun. 7:30.

Harvard Square—'Kaleidoscope' and 'An American Dream,' 2:05, 5:50, 9:35. Mayflower — 'The Russians are Coming,' 9:45, 11:45, 2, 4:15, 6:25, 8:40 (Sun. 1:10, 3:40, 6, 8:30).

Music Hall—'Murderer's Row,' 10, 12, 2, 4, 6, 8, 10 (Sun. 1:30, 3:30, 5:30, 7:30, 9:30). Orpheum — 'Venetian Affair,' 10, 12, 2, 4, 6, 8, 10 (Sun. 1:42, 3:42, 5:42, 7:42, 9:42).

Paramount—'Follow Me Boys,' 9:30, 11:50, 2:10, 4:30, 6:50, 9:15. aris—'The Sound of Music,' 8:15; Paris-Wed., Sat., Sun. mat. 2:15; Sun. 7:30.

7:30.

Park Square Cinema—'A Man and a Woman,' 2, 4, 6, 8, 10.

Savoy—'Gambit,' 10, 12, 2, 4, 6, 8, 10 (1:30, 3:30, 5:30, 7:30, 9:30).

Saxon — 'Dr. Zhivago,' 8:15; Wed., Sat., Sun. mat. 2; Sun. 7:30.

Symphony i—'Loneliness of the Long Distance Runner' and 'Shop on Main Street'

Distance Runner' and 'Shop on Main Street.'
Uptown—'Liquidator,' 11, 2:35, 6:10, 9:45 (Sun. 1:45, 5:25, 9:05); 'Kaleidoscope,' 12:40, 4:15, 7:50 (Sun. 3:30, 7:10).
West End Cinema — 'I, A Woman,' 11:45, 1:45, 3:45, 5:50, 7:45, 9:45 (no 11:45 on Sun.).
THEATRES
Charles Playbouse — Shakespeare's

Charles Playhouse — Shakespeare's 'Hamlet'; thru Jan. 22; weekdays 8:30; Sat. 5 and 9 pm; Sun. 3 and Shubert-'Half a Sixpence,' touring

company with Kenneth Nelson; thru Jan. 7; \$2.75-\$7.50.

Theatre Co. of Boston — Edward Albee's 'Tiny Alice,' thru Jan. 22; 8:30; Sat. 6 and 9:30; Sun. 5 and 8:30.

Wilbur Theatre — Herman Raucher's 'Two Weeks Somewhere Else'; thru Jan. 7.

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# COME ON IN. THE DIALOGUE'S BUBBLING.

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Mr. James T. Hill Harvard University Quincy House, Room 700 Cambridge, Massachusetts 02138

Dear Mr. Hill:

There is an urgent need, I believe, for a serious discussion between campus and corporation.

I am genuinely concerned about recent studies which indicate that an alarming percentage of college students have no interest in pursuing careers in business. Many of these students show little respect for business and have a condescending attitude towards those who do choose it as a career.

August 25, 1966

Some say business leaves them cold. Lacks action. That it's boring, unimaginative, stuffy and self-seeking. Others say they don't want to be lost in the corporate crowd and that there is little chance of early recognition for a young man in business. Some question whether business offers the opportunity for the personal satisfaction that comes from humanitarian service. Their answer: Join the Peace Corps or VISTA; teach; or enter a service profession.

If you are motivated toward teaching, medicine, government or law, I say go at it eagerly. They are valuable careers for which we in business have great respect and admiration. Many of our most able business leaders have professional backgrounds and our everyday operations bring us into close contact with men outside of industry.

However, don't sell business short. If you shrug off a business career because you think it offers no excitement, no challenge, no chance for recognition or to make a meaningful contribution to society... I think you're wrong.

A tremendous opportunity for human and social betterment may well slip away if brighter students turn their backs on business for reasons not necessarily valid. The coming years promise fantastic new developments in the sciences, electronics, transportation or just about any field you can name. However, realization of these great potentials requires fresh thinking, young, vigorous minds able to channel ideas creatively and productively... able to make decisions... able to generate action, the very thing you crave.

This is why I'm concerned. If I read some of you right, we're in trouble. Something has broken down, somewhere. Perhaps certain college students are misinformed and should be set straight. Or maybe we in business had best undertake a basic reappraisal of our way of doing things. If changes are in order, I'd like to find out.

Frankly, we don't understand each other well enough . . . we don't communicate enough. And, therefore, I propose we set a specific course to try to resolve this.

Let's discuss business openly, two-way, pro and con, on the pages of your campus newspaper. You express the views of those around you. I'll respond. Tell me what you think is wrong with business, what might be changed. Why you feel there are more exciting opportunities elsewhere. If neither of us pulls our punches, I think we have a lot to gain.

Interested? I hope so. Send me your thoughts regarding business as well as an indication that you will join in a discussion. I will print your comments and mine in subsequent issues of this paper.

We can't do this too soon. Tomorrow's problems and opportunities won't wait.

Sincerely,

Lobus W. Glow

Robert W. Galvin Chairman

9401 W. GRAND AVENUE, FRANKLIN PARK, ILLINOIS 60131/(312) GLADSTONE 1-1000/CHICAGO: NATIONAL 5-6000

In August, I wrote this letter to James Hill, Harvard student. 

It is an invitation to a dialogue about bus ness—a dialogue which has been appearing regularly in this newspaper for the past few months. Mr. Hill response was provocative and to the point. I hope I've answered some of the questions he raised. 

Short after the dialogues started, I began to get letters from other students and faculty members expressing interes in the series and asking why not open the dialogues to others—get the views of everyone on campus. Student teachers, and administrators. 

That's exactly what I'd like to do. And while I obviously can't promise that ever letter will appear in print, I can assure you that I will read each and respond. 

Whatever your major study, what ever your ideas—I'd like to hear from you. You may want to agree or disagree with some of the past dialogues obring up new issues that haven't been explored. You may just want to sound off about business. It's up to you

# Ripon Society offers blast to selective service system

Abolish Draft

The Society dismissed the lottery service. alternative to the draft as a "method of planned capriciousness which would merely substitute impersonal injustices for human injustices." It ridiculed the National Service scheme as "a gargantuan Brook Farm built on compulsion," adding that such an alternative could not find positions for the more than 1.8 million men turning draft-age each year.

Cost estimates differ Various official and non-official

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# SAVINGS RAN

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The Cambridge Chapter of the estimates of the cost of keeping Ripon Society, a Republican a volunteer army have ranged based group whose primary aim from \$6 billion to \$20 billion. Deis to counter-act the Conservative fense Secretary MacNamara has, image of the Republican Party by at different times, given differing putting forth a program highly estimates of the additional cost. palatable to moderates, has re-Ripon, basing its figures on a recently issued a policy statement port by an Economics Professor on the draft. The society, headed at the University of Washington, by MIT Assistant Professor of estimates the increase in pay to Political Science John S. Saloma amount to 5.4 billion. This figure, III, is widely respected through- although taking into account a out moderate circles, and its 68% across the board pay inviews are taken quite seriously. crease for first tour enlisted men, is still \$600 million less than the The Ripon report called for the lowest Pentagon estimates. The abolishment of the draft, and the highest Pentagon estimate, \$17 establishment of, in its place, a billion, represents a \$7000 pay 2.7 million man volunteer army. raise to everyone in military

services due to the draft and the eon last month. He spoke of the resulting high manpower turn- merits of the exposition and about over rate, the report notes that his experiences in organizing the the equivalent of ten divisions are \$300 million extravaganza. One always in training. Also, by re-country changed governments jecting almost 50% of all appli- three times during the past five

#### Opposition to change

Unfortunately, the society finds the opposition to the draft too splintered to effectively counteract the strong sentiments for the draft, especially those of leading congressional figures. Every four years when Congress looks into the extending the present system, there tends to be a short debate and then approval. Congressional

(Please turn to Page 10)

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# Expo 67 promises

By Mike Rodburg

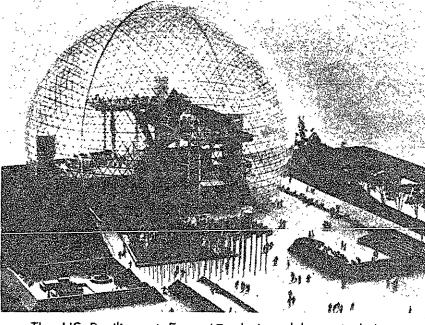
In 1967 Canada will celebrate its centennial; the USSR will be 50 years old. Both wanted to celebrate with a world's fair. The International Exhibitions Bureau, a 31-nation body that approves official world expositions, at first gave the nod to Moscow, but they later declined and in 1962 Canada was told she had five years in which to build a fair. And a remarkable fair she has built.

#### DuPuy at MIT

Pierre DuPuy, Commissioner General of the Universal and International Exhibition of 1967, or In citing examples of the pres- Expo 67 for short, was guest of ent inefficiency of the military honor at a Faculty Club lunchant, Ripon sees no reason why eled the distance to the moon."

External Affairs.

On an island Expo 67 is situated on the new-



The US Pavilion at Expo 67, designed by noted American architect, R. Buckminister Fuller, will be a 3/4 geodesic skybreak bubble, 19 stories high and 250 feet in diameter. The lightweight structure will be a lacy filigree of metal supporting a transparent

cants for military service, the years, and Mr. DuPuy had to ly enlarged St. Helen's Island The largest of the exhibits is Defense Department tends to travel back each time to secure and man-made Ile de Notre Dame the Soviet Union's pavilion, which create an unrealistic manpower an agreement with the new peo- in the middle of the St. Law- trumpets the Russian space feats. shortage. As only one out of five ple in power. Before the fair is rence River, 10 minutes from Here one will actually feel weightmilitary jobs is that of a combat- over, he said, "I will have trav- downtown Montreal. Here over lessness. Across the Lemoyne 70 nations (the most ever for a Channel from the Russians is the those who fail to meet the rigor. Mr. DuPuy was appointed to fair; Brussels attracted 45 na- US pavilion, a 187 foot high ous physical standards can't be his position from the Office of the tions) and hundreds of exhibitors "Bucky" Fuller geodesic dome of used in noncombatant functions. Prime Minister after a distin- will provide an "astonishing tour plastic and glass. Mr. DuPuy reguished career in the Canadian of discovery and pleasure." Over marked that the name he thought diplomatic corps. As Consul in 30 million visitors (it is hoped) most appropriate for the bridge Paris, he moved to London in will explore the exposition be- which connects these two pavi-

immediate direction of Prime The official theme of the fair Co-existence. After some haggling Minister Churchill (his work was is 'Man and His World.' Every Cosmos Walk won out. cited by Sir Winston in his mem- exhibit develops some part of a oirs.) Presently, the 70 year old single theme: How man has coped sented in many ways. There are Commissioner is the senior for- with and conquered his environ- recreated homes of 15,000 years eign officer in the Department of ment thus far in history. The ago plus designs for tomorrow. losopher killed in action during the use of atomic freight-carrying World War II, who said, "To be submarines. One of the theme paa man is to feel that through vilions includes a model of a one's own contribution, one helps human cell, magnified millions of to build the world."

The fair is constructed with canals providing the routes to

#### Second criminal escapes with gold

(Continued from Page 7)

scene entitled 'The Landing of and tourists makes it a worth the Gold' (cast of thousands). while venture. But some other crominal gets Because the international rules

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1940 where he worked under the tween April 28 and October 27. lions was the Bridge of Peaceful

Man and His World will be prebasic idea was derived from the An Arctic pavilion recreates an book 'Terre des Hommes,' writ- Eskimo village, and demonstrates ten in 1939 by Antoine de Saint- how the future of the polar re-Exupery, a French pilot-poet phi- gions will be developed through

#### Not commercial

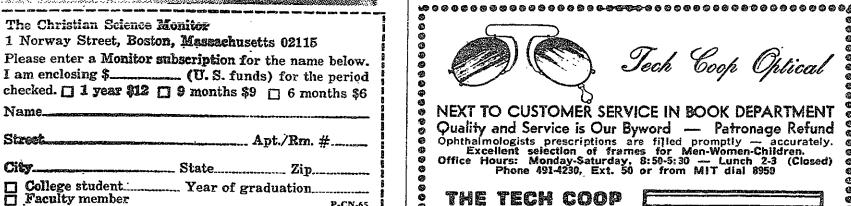
But these types of pavilions most exhibits; one may rent a have been seen before, and when gondola, or sail a sampan or asked if he had learned anything dhow. The buildings will reflect from the New York's World Fair into the water for added beauty. (which was not sanctioned by the international committee, and hence had few nations participating) Mr. DuPuy replied, "We will not be commercial." The emphasis of the fair is on fun and entertainment. "We don't expect to make a profit; education, inforthe two stars sit and stare at mation, and a good time are each other across a table, in more important than selling order to present man's inability goods." Although the fair will to communicate; and so on. Un- lose money for the participating til Sellers succeeds' in getting the nations, the revenue which Mongold of Cairo ashore, in the great treal will derive in new business

away with the gold and our hero allow the fair to remain open is carried off to jail, not without only 6 months, Mr. DuPuy hopes making a promise to be out by to keep things moving all the three o'clock on a certain day time. The day Expo 67 opens, shipwrights will lay the keel of a schooner. Six months later the finished ship will be launched.

Festival of Arts

A World Festival of the performing arts will be presented featuring companies and operas from Britain, France, Austria,

(Please turn to Page 10)



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IN THE M.LT. STUDENT CENTER



# Looking Back

By Mickey Warren

45 years ago

.. The combined Musical clubs jector. of MIT announced a 2500-mile 15 years ago winter tour to be held during the Christmas holiday. The clubs will visit Rochester, Cleveland, Akron, Chicago, Rockford, and Schenectady. In each city they visit, the club's members will be guests of the host Technology Club.

... Walker Memorial Dining Service reduced its prices on almost all dishes. The change in policy reflected the increased patronage that Tech students have charges. A defense fund was given the Walker Facility.

30 years ago

... Dr. Francis Bitter of the signers of the petition calling for Dept. of Mining and Metallurgy the start of the defense fund were produced a magnet capable of Warren Ambrose, Witold Hurefields up to 100,000 gauss. The wicz, George B. Thomas Jr., and enormous power necessary to cre- Norbert Weiner. ate this field, the largest ever produced, was made available to Co. He used a direct current of ROTC deferments were condition-Dr. Bitter by the Edison Electric 12,000 amperes at 250 volts to create his field.

more students were affiliated with gram, or bowing out. In any case churches than were six years ago. new deferments had to be nego-Episcopalians were the largest re-tiated by those involved. ligious denomination on campus. followed by the Catholics, and the Congregationalists.

#### No ROTC for objectors

be lifted for Techmen who are The particle, named a positronium conscientious objectors. Students by Deutsch, is a combination of in this category will be allowed to an electron and a positron rosubstitute a course such as 'In- tating about each other. The parternational Law,' or 'Diplomacy.' ticle exists for only one ten-The alternative courses will be billionth of a second, but Profesmade especially hard to dissuade sor Deutsch had found a way to students who would want to get increase its lifespan by the use of out of ROTC for reasons other a magnetic field.

than those of a conscientious ob-

. . . Professor Dirk Struik was indicted under a Massachusetts law on charges of "advocating, advising, counseling, and inciting the overthrow by force and violence of the government of the Commonwealth of Massachusetts and the government of the United States of America." Professor Struik categorically denied the quickly set up to provide for legal assistance for the mathematics professor of 25 years. Among the

. . . Due to a new Selective Service Act passed by Congress, all ally voided. Students in ROTC had the option of signing a new contract with the Army or Air Force. . . . A TCA study revealed that and entering the new ROTC pro-

#### Positronium discovered

. . . An article in the New York Times stated that a new atomic particle had been discovered by . . . The ROTC requirement will MIT Professor Martin Deutsch.

# Amusement park offers rides; new law to prevent price rise

(Continued from Page 9) Germany, Italy, Sweden, and Russia. Other cultural events such as art exhibits on display from all over the world for the for the entire season.

But still, much of the emphasis is on fun. A 135-acre complex called LaRonde will offer recreation and an amusement park. One of the most dramatic rides of all time, according to Mr. DuPuy, is featured. Passengers enter a capsule and are sent into orbit, spiralling through the planets, then they soar into the open for a grounds. Finally the craft is countries and the best of man.

plunged into the middle of a molten bed of volcanic lava, bubbling, seething, and smoking away.

#### Reasonable prices

Finally, and most enjoyably, first time together, will continue Expo 67 is not out to soak the visitor. The pavilions and exhibits are all free of charge, as is most of the entertainment. Only the admission ticket is needed for a full day (and night) of enjoyment. The Canadian legislature has passed a bill placing a freeze on hotel rates, and Logexpo, a computer system, acts as a clearinghouse for accommodations.

All in all, the fair should reppanoramic view of the Expo resent the best of some 70 odd

## CRIA solicits funds to aid restoration of Italian art

After the November 4 flood of Last month two groups of ures, the Committee for the Rescue of Italian Art was formed in restoration work. this country to raise funds to aid in the restoration of the art works.

#### Draft necessity question not raised in Congress

(Continued from Page 9)

brevity is explained by citing extensive hearings by the Armed Services Committees. Ripon contends that past committee hearings have never taken up the question of whether the draft is necessary, but have tacitly as-

the Arno River in Italy, and the American conservators and techresulting destruction of one hun-nical personnel and their equipdred thirty to one hundred seventy ment and supplies were flown to million dollars worth of art treas- Rome to commence on what is estimated to be twenty years of

> Funds contributed to CRIA, Inc. (tax exempt), are being employed to conserve not only works of art, but also damaged libraries, museums, buildings, and all objects of cultural interest. They will be used initially to supply American material and personnel to aid Italian authorities, and later will be distributed under close supervision to assist those Italian efforts judged by the Advisory Committee to be most effective and essential.

Donations should be addressed to CRIA, Inc., Box 1414, Provisumed it to be intuitively obvious. dence, Rhode Island, 02901.

#### To discuss universe

# rton hosts Wilkerson

7:30 p.m. The forum is being pre- Thinking." sented by the Burton Second Wazoo, and will be open to the entire MIT community. Wilkerson

Mr. E. D. Wilkerson will be the his geocentric concept of the uni- ing devices, aiming devices, bal-

guest speaker at the Wazoo verse, as outlined in the Novem- ancing equipment, hydraulics, ber 22 issue of The Tech in an and aerodynamics. He has had no Forum in Burton House Dining advertisement entitled "Wanted: advanced schooling, and claims Hall Wednesday, January 11 at Students for Extracurricular that his ideas (good or bad) are his own. Since 1957 he has visited many major space centers, talked Wilkerson, a self-made indus- to numerous scientists, professors, trialist and inventor, is owner-physicists, and astrophysicists, manager of Wilco Products Inc. of written hundreds of letters, and is coming to MIT from South South Orange, and boasts of some made hundreds of phone calls Orange, New Jersey, to defend 48 patents of geometrical measur- across the country, and is now convinced that "the entire scientific edifice in the field of natural forces is built on a quicksand foundation." He is a must for all

> For further information, please contact John Blankinship, ext.

extracurricular thinkers.

# **UAP Frank March named** to chair Boston Council

UAP Frank March '67 was junior was elected Secretary and the Council's December meeting. Hom tions. March had served as Acting Chairman through the earlier part of the term.

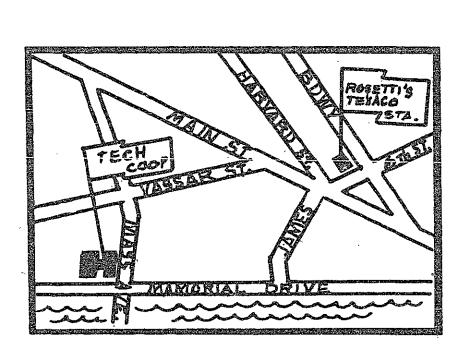
In other elections, a Radcliffe Sunday at 7:30 p.m.

elected Chairman of the Greater a Brandeis senior, Public Rela-Boston Intercollegiate Council at tions Chairman. Representatives from 11 schools voted in the elec-

> The next meeting of the Boston Council will be held at MIT in the Inscomm Conference Room

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# Swimmers face Williams fornorrow: anxious to improve 3-1 record

hands of a UConn team that took third in the New Englands last vear and looks to do even better this year.

Led by sophomore Luis Clare, ken five varsity records and should lower several others before the season is over. Clare has broken two individual marks, setting new standards for the 200 yadr backstroke and the 200 individual medley. In addition, he set a new mark in the 400 freestyle relay.

Williams, despite the loss of

26 year old INTELLIGENT Mother will take your child into her home, provide hot lunches, supervised play AND PATIENCE while you work. 646-2160; after 6:00 P.M.

New England champion Wil- several swimmers, should still be liams will be in town tomorrow a strong contender this year. The to face Tech's varsity mermen meet tomorrow should be exciting at 2 pm. The swimmers will carry and very close. One of the higha 3-1 mark into the meet, with lights could be a duel between their only loss coming at the New England champion diver, Williams' Gardner, and last year's runner-up, Dan Gentry '68. The meet tomorrow should be one of the most exciting of the young round of foil, 2-1. Curt Marx '68

#### the swimmers have already bro- Beccon St. leccs in CHL hockey

Current standings released by the MIT Community Hockey League show the Beacon Street A.C. holding down first place with a 3-1-1 record. Civil Enginswam the backstroke leg of the eering and the Habitants are tied record-breaking medley relay for second, with spoints apiece, team. The swimmers also have while the Instrumentation Labs are in the cellar.

Results of recent games:

Civil Eng. 8, Instr. Labs. 0 Beacon St. A.C. 3, Habitants 0 Beacon St. A.C. 2, Civil Eng. 1 Instr. Labs 3, Habitants 3 Beacon St. A.C. 6, Habitants 6 Habitants 5, Civil Eng. 4

Leading Scorers:

Pecknold (Hab.) Cato (Hab.) McLaughlin (RSAC) McPhail (CE)

A TP

#### Season record now 3-2

# encers win

By George Wood

Tech's fencing team brought ishing 2-0. their season record to 3-2 with two victories just before the vacation. After a slow start, Tech came back to beat Southern Massachusetts Technological Institute 16-11, December 14.

SMTI led at the end of the first and Bob Fall '67 won their first round sabre bouts to leave the score 3-3. Tech fencers swept the first round of epee 3-0. The Beavers led 6-3 at the end of the first round. Peter Hayward '69 and George Churinoff '68 each accounted for two of MIT's six wins, in foil. Burt Rothberg '68 and Bill Murray '67 each won their only foil bouts.

Bob Gentala '69 made the best showing in sabre, going 2-1 in the meet. Curt Marx and Bob Fall each had 1-1 records in sabre. In a 1-3 record, after a tough loss epee, the engineers came out on to a strong McGill team 5-4. The top 6-3.

lead. Hayward and Rothberg were in his next three.

foil and epee bouts were finished, as the Tech sabremen won 6-3.

undefeated in the meet, each fin- leaving the sabre team with nine bouts in a row. Norwich used a Norwich had only one member man each from the foil and epee of their sabre team present at teams with the one regular sabthe meet. Anticipating the arrival reman in the competition. Curt of the rest of the team, all of the Marx was 2-0, Bob Fall and sabre bouts were put off until all Frank Carroll '69 were each 1-0,

# Rackeimen fall to McGill; season log stands at 1-3

By Roger Dear

all set for a big weekend, for the quished their opponents 3-0, while Beavers are hosting Williams tonight, and tomorrow they are traveling to Wesleyan. This evening's match will be held at Du-Pont at 7 pm.

The team is currently sporting Beavers played very well, and Maestro Vitale's squad had an with a little bit of luck the outeasy time with Norwich Univer- come could easily have been resity, December 16, winning 21-6. versed. Both Ken Wong '68, num-Churinoff started the meet with a ber two man, and Bob Melanson 5-0 win in foil in his only bout. '68, number five man, lost their Leonard Zucker '67 and Rothberg contests 3-2. Team captain 'Chye' also won their first round foil Tantivit '68, playing number one, bouts, giving MIT an early 3-0 won his first game, but bowed

were Eric Coe '67, Phil Scoggin Bradley University.

'69, Joe Ferreira '67, and Geoif MIT's Varsity squash team is Hallock '69. Eric and Phil van-Joe won 3-1, and Geoff conquered his foe, 3-2.

#### Bridge Club sets tourney dates

The MIT Bridge Club will hold its full master point game for January tomorrow at 1 pm in room 407 of the Student Center. Next Saturday's game will be the first round of the Annual Intercollegiate Bridge Tournament for 1967. Top-ranking pairs will compete in a Regional Face-toFace Playoff and, if successful there, will be eligible for the Face-to-Bright spots for the Beavers Face Final Playoff to be held at

# James McPherson '67 visits United States Military Academy



Cadet Gary W. Halstead (right), junior at US Military Academy, shows visiting ROTC cadets signatures of past superintendents of the Academy engraved on brass plaques in the Cadet Chapel. From left are Brig. Gen. Dennis D. Puppel of Ohio State University; Jimmie C. McPherson '67 of MIT; and Kenneth W. Carter, from the West Virginia University.

# Student workers sought by Open House Committee

events.

The committees include junior central and other exhibits. Nick Covatta's Publicity group, which will take on the task of inviting 50,000 New Englanders to MIT. Bob Condap '68 will chair the Presentation Committee, which will assume responsibility for the displays presented by the departments. A student will be assigned to each department, and will work with the professors and Open House. course honoraries to carry out individual department plans.

(at the rate of three per second) Chairman Ed Seykota.

Beginning in February there through the exhibits. Sophomore will be opportunities to work on Bruce Donath's Physical Plant Cothe Open House Committee on ordinating group will supervise several committees. Open House the assignment and preparation will host fifty thousand guests of rooms as well as engineer sofrom New England Saturday, lutions to the parking problem. April 22, who will come to view The Special Exhibits committee, MIT's academic departments, stu-headed by Mike Marcus '68, will dent activities, and athletic work closely with the Office of Public Relations to prepare the

> Mike Ginzberg '69 will head the Finance Committee, which will allocate funds and supervise the several thousand dollar budget. The Records committee, chaired by Bob Bengen, '68, will collect and prepare a bound record of the planning and presentation of

If anyone is interested in a position on any of the above com-Clyde Rettig, '68, will head the mittees, he is urged to get in Receptions Committee, which will touch with the committee chairreceive guests, and direct them men, or Open House Committee

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# Hoopsters trounce Tufts: skaters and matmen lose

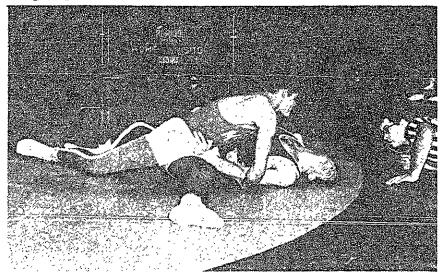


Photo by Jeff Reynolds

167-pound frosh grappler Walt Price is shown on the way to his third straight victory. Price repeatedly put his Harvard opponent on the mat, but failed to register the pin. Coach Bob Wells' matmen lost their first meet of the season to the Crimson. 15-12.

#### By Paul Baker

Freshman athletes slackened off before Christmas vacation as only the basketball team won a contest while the wrestling and hockey teams lost.

The frosh hoopsters added another game to their winning column by romping over Tufts 78-63, Saturday, December 17. The Tech teamwork was outstanding; it was the first time the squad played well as a unit. Steve Chamberlain, who did not start, paced the engineers with 18 points, followed by Bruce Wheeler with 15. The second string got a taste of action as Coach Singal pulled his starters with 5 minutes left to play.

#### Matmen lose first

The matmen experienced the agony of defeat when they were dumped by Harvard, 15-12. This was Tech's first loss of the season. Fred Andrea (heavyweight) and Walt Price (167) maintained an unblemished 3-0 records by outpointing their opponents. Joe Baron (123) and Dick Willoughby (145) also copped their matches.

#### Belmont trounces skaters The frosh pucksters made their

'66-'67 debut Friday, December 16, and were trounced 6-1 by Belmont Hill. Belmont slipped four goals past the shaky engineers in the

#### Skiers look goo of training comp; place 4 in meet

By Rich Rosen

Coach Bill Morrison's varsity skiers returned from their winter vacation trip with high hopes for the coming season. Included on the trip were the Lydonville Relays, in which the team fared well in strong competition.

The team held a 4-day training camp at Franconia, N.H. from December 27 to December 30. There was informal cross-country and Alpine racing with the Yale and Harvard teams. The Nordic team proceeded to Lydonville, Vt., December 31, for the annual Relays. This meet, which always draws 'top-flight competition, atcluding members of the National

Among these class racers, Helge Bjaaland '67 finished 13th and, Paavo Pyykkonen '67, Dick 2-0-1, chalking up previous vic-Haberman '67, and Doug Cale '69 all were in the top 50. This strong showing indicated that the Nordic ed by NRSA, as they fought to a squad is greatly improved. The 1-1 tie. This leaves Burton 2-0-1 Alpine skiers, though not as strong in the league. as the Nordic team, also look better.

team are the Putney Relays, a addition to being unbeaten, also Nordic event, January 24 and 25. unscored on. Their victories have A training camp will be held dur- been over the Delts, the Sig Eps, ing Intersession, with the St. and the Lambda Chis. Lawrence Carnival and EISA championships among the high-take on LXA Sunday. The Burlights in February.

first period, but Tech fought to a scoreless tie in the second. Rich Pennick tallied the frosh's first score of the year in the final period, but Tech's defense yielded two additional goals.

# Cagers drop 3 in holiday action

By John Kopolow

Over the last three weeks the varsity basketball squad faced four tough opponents and, in dropping the first three contests, saw their perfect 5-0 record destroyed before they finally got back on the winning track by beating Lowell Tech Tuesday night.

Dartmouth brought to Rockwell Cage December 17 a tall and talented squad which planned to walk away with an easy triumph. But the Beavers made them work through two overtime periods before bowing, 70-68.

Dartmouth led throughout most of the first half due to the incredible shooting of forward Joe Colgan, whose 30 points for gamehigh included 12 for 17 from the floor. Late in the opening half, junior Dave Jansson got hot and popped three straight enabling the Beavers to tie the score at 28-28 at halftime.

#### Dartmout.h Edges Ahead

Ragged play by the Beavers in the second half allowed the visitors to edge away to a 57-49 lead While the scoring was unbal- with just two minutes left. Clutch anced, the contest wasn't a total field goals by Jansson, and loss for MIT. The inexperienced senior co-captains Alex Wilson and engineers looked poor in the first Bob Hardt made it 57-55 with 50 period but picked up in the re- seconds to play. With 25 seconds mainder of the game. Coach Blou- remaining Jansson in heavy traffic in, who cancelled the orginal calmly hit a fantastic 25 footer schedule, plans to line up several to knot the score. Dartmouth games for the remainder of the played for one shot, but it again that contest was due mostly to was Jansson who blocked it at Alex Wilson putting on his best

the buzzer sending Tech into their second straight overtime game.

MIT built up a 64-60 lead in the first two minutes of the extra period, but Jansson picked up his fourth and fifth personals so that the Beavers had to play the rest of the way without their leading playmaker and scorer with 21 points. Dartmouth tied the score and won it in the next overtime on a tip-in by 6'7" Gunnar Malm with 9 seconds to play.

Over the vacation Tech played in the Worcester Jaycee Holiday Tournament which included such schools as Long Island U. and Assumption, both nationally ranked among small colleges. Unfortunately the Beavers were matched in their first game against Assumption, who had the performance of the season. He added advantage of playing on their home court. This was certainly a key factor in helping high scorer with 30. The first half them defeat both MIT and finally LIU to win the tournament.

#### Assumption Rallies To Win

forces played excellent basketball for all but the last five minutes of the game against Assumption. In those few minutes the host team put on an awesome drive which gave them an 80-71 tri-

MIT's fine showing in most of

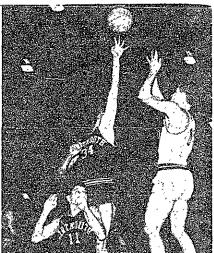


Photo by Jeff Reynolds

Ray Ferrara '67 sinks a jump shot over Dartmouth's captain Gunnar Malm. The engineers lost, 70-68.

drove in frequently for scores, led both teams in rebounds and was saw Tech out-rebound their smaller foes 29-19, including 13 by Wilson, and shoot with a .667 per-Nonetheless, Jack Barry's centage from the field to Assumption's .385. However, the Greyhounds' press forced MIT into many bad passes so that Tech held only a 38-37 lead at the half.

> The shooting and rebounding of Wilson and Hardt provided the Beavers with a 65-57 lead with just 5 minutes left. At this point the roof fell in. The aggressive Assumption squad repeatedly stole the ball while their shooters began not to miss. By the time MIT could score again they trailed 73-65 and it was all but over.

> The very next afternoon an exhausted and depressed Tech five faced Clark U. in a contest that they would like to forget. Again they led most of the way only to be overtaken in the final minutes by a 77-75 score. Bob Hardt continued his superb hustle and scored 26 points.

#### Cagers Drop Lowell Tech

In Lowell Tech, MIT met a team which feature one of the outstanding players in small college basketball, Hank Brown. Coach Barry went with a man-toman defense in order to have Brown matched against his defensive ace, Jansson. It was Jansed for the Beavers' 62-52 win.

MIT broke a 26-26 halftime tie of his 17 points in the second half and Hardt and Wilson, both of whom had 16 for the contest, scored well in the second stanza. Bob Ferrara '67 had his best offensive night of the season, totaling 11.

#### Wu. Davies outstanding

# Grappiers suffer ist defeat

By Armen Varteressian

The perennially rough Harvard wrestlers dea't the Tech varsity its first dual meet loss of the season Friday, December 16, bringing the Engineers' season mark to 2-1 with the 22-13 loss.

At 115 pounds, Ed Tripp '67 lost 5-0 to Harvard's Andy Kopecki. Bill Harris '68 could' not contain Howie Henjyoji, and was pinned in 2:24 of the 123-pound match. At 130, Gregg Erickson '69 lost a 9-3 decision to Dan Naylor, and Harvard led, \$1-0. Jack Maxham '69 was the first Techman with any points up on the board, pulling two team points with a 1-1 draw against Carl Baum.

Wu triumphs, 7-0

easily defeated Harvard's Bill season. Zinn, 7-0. Using leg rides almost exclusively, Jack was able to contain Zinn handily. John Fishback vard's Chris Wickens at 167.



Photo by Jeff Reynolds

Soph Keith Davies gained the attention of Eastern collegiate son's excellent defensive play, wrestling coaches by defeating Harvard's Paul Padlak. Davies holding Brown to 12 points and gained the win with this pin in 7:27 of the match. Padlak was a just one field goal while actually At 145 pounds Jack Wu '68 third place finisher in the Eastern wrestling championship last on him man-to-man that account-

#### Davies wins by pin

With the score Harvard 22, MIT '68 came up against Harvard's 5, Keith Davies '69 faced Paul captain, Ed Franquemont in the Padlak in the 177-pound division. 152-pound division, and lost, 6-0. With the score tied and less than Hank DeJong '67 lost 9-3 to Dick a minute to go in the final period Low at 160 pounds, and Julian of their match Padlak attempted Schroeder '69 lost 10-6 to Har- a takedown against Keith. Davies blocked the attempt, took Padlak

down, and pinned him in a double grapevine, with 23 seconds re- to win going away. Jansson got 16

At heavyweight, Dave Schramm '67 came through again with a 5-0 victory over Bob Panoff, bringing the final score to 22-13, Harvard.

The loss brought Tech's season record to 2-1, while Harvard's victory evened its season mark at 1-1, following a loss to Farleigh-Dickinson. Harvard had beaten MIT last year 29-10, and this year's victory brings the total MIT-Harvard record to 40 wins for Harvard against 11 for Tech.

#### Face UConn next

The varsity will contend with the University of Connecticut tomorrow at Storrs. Though they expect little trouble from UConn, the Engineers will have to face a tough Wesleyan squad at home one week later.

#### MIT holiday tourney

In the MIT Holiday tournament, held December 30th and 31st, five Tech wrestlers competed, and three advanced to the finals, all taking second places. Keith Davies took a second at 177, while Julian Schroeder placed in the 160-pound class. Freshman Walt Price also took a second in the tourney, advancing to the 167pound finals before losing to Ron Tata, a graduate of WPI

# Zeta Beta Tau leads in hockey; three teams tied for 2nd place

to a 2-2 deadlock. TC is now favored to defeat the Sammies. tories over SPE and DTD.

Burton's record was also spoil-

These results leave ZBT alone on top of the "A" League, with Next on the schedule for the a 3-0 record. The ZBT's are, in

In action next week, Burton will tonites are favored to extend their

Several upsets occurred in IM winning record. Theta Chi will tracted close to 250 skiers, in Hockey action just before the face DU on Monday, trying to im-Christmas break. SAE had to set- prove on its 2-0-1 record. ZBT's tle for a tie with dark horse The- next game will be a week from ta Chi, as the two teams battled Sunday when they are heavily

#### Mermen face champ

Tech's varsity mermen, boasting a 3-1 record, take on the current New England swimming champion, Williams, tomorrow at 2 pm. This year's team has a very good chance to knock off the defending champs. Anyone interested in seeing some of the best swimming and diving in New England should be on hand for this meet.